FILE 'HCME' ENTERED AT 10:59:40 ON 31 JAN 2003

- => file agricola biosis caplus caplus
- => s npr1 or nim1
- 469 NPR1 OR NIM1 1.1
- => duplicate remove L1
- 247 DUPLICATE REMOVE L1 (222 DUPLICATES REMOVED) L2
- => d ti 1-50
- ANSWER 1 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- TA Repeat Variation, Npr1 Expression, and Blood Pressure ΤI
- ANSWER 2 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- Natriuretic peptide system in fetal heart and circulation. ΤI
- ANSWER 3 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Analysis of the roles of salicyclic acid and nim1/npr1 ΤI in arabidopsis thaliana pathogen defense
- ANSWER 4 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Molecular and genetic analysis of niml-dependent and independent L2 induced defense response pathways in arabidopsis thaliana ΤI
- ANSWER 5 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- Human NIM1 kinase. TI
- ANSWER 6 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Collections of transgenic animal lines in which a subset of cells L2 characterized by expression of an endogenous "characterizing" gene and ΤI uses
- L2 ANSWER 7 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Protein and cDNA sequences of human and mouse Rh type B glycoprotein ion transporter and their expression in mammalian cells TΤ
- ANSWER 8 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Promoters isolated from Arabidopsis thaliana defense-associated genes and L2тT uses in expression of transgene in plant cells
- ANSWER 9 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Pational Design of Artificial Zinc-Finger Proteins Using a Nondegenerate L2 TΙ Recognition Code Table
- ANSWER 10 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 1
- A gain-of-function mutation in an Arabidopsis Toll Interleukin1 Receptor Nucleotide Binding Site-Leucine-Rich Repeat type R gene triggers TI defense responses and results in enhanced disease resistance.
- ANSWEP 11 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 2
- Cell cycle-dependent assembly of a Gin4-septin complex. TI
- ANSWER 12 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Isolation and characterization of broad-spectrum disease-resistant ΤI Arabidopsis mutants
- ANSWER 13 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- Arabidopsis SON1 is an F-box protein that regulates a novel induced defense response independent of both salicylic acid and systemic acquired Τſ

resistance.

- ANSWER 14 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- In vivo interaction between NPR1 and transcription factor TGA2 leads to salicylic acid-mediated gene activation in Arabidopsis. ΤI
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- Regulation of the MPG1 hydrophobin gene in the rice blast fungus ΤI Magnaporthe grisea.
- ANSWER 16 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 6
- Preexisting systemic acquired resistance suppresses hypersensitive response-associated cell death in Arabidopsis hrll mutant. ΤI
- ANSWER 17 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- Targets of AtWRKY6 regulation during plant senescence and pathogen TΙ defense.
- DUPLICATE 8 ANSWER 18 OF 247 AGRICOLA Benzothiadiazole induced priming for potentiated responses to pathogen L2 infection, wounding, and infiltration of water into leaves requires the TINPR1/NIM1 gene in Arabidopsis.
- ANSWER 19 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Characterization of early, chitin-induced gene expression in Arabidopsis L2 ΤI
- ANSWER 20 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- Structure and genomic sequence analysis of murine guanylyl cyclase/atrial L2natriuretic peptide receptor-A gene.
- ANSWER 21 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- Isolation of a SIR-like gene, SIR-T8, that is overexpressed in thyroid L2TΤ carcinoma cell lines and tissues.
- ANSWER 22 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- Genetic disruption of guanylyl cyclase/natriuretic peptide receptor-A potentiates the expression of nitric oxide synthase in kidney. TΤ
- DUPLICATE 9 ANSWER 23 OF 247 AGRICOLA L2
- Role of salicylic acid and NIM1/NPR1 in race-specific TIresistance in Arabidopsis.
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- DUPLICATE 10 Ventricular expression or natriuretic peptides in Npr1-/- mice TIwith cardiac hypertrophy and fibrosis.
- ANSWER 25 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- Potentiation of developmentally regulated plant defense response by AtWRKY18, a pathogen-induced Arabidopsis transcription factor. TI
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- Evidence for regulation of resistance in Arabidopsis to Egyptian cotton worm by salicylic and jasmonic acid signaling pathways. ΤI
- DUPLICATE 13 ANSWER 27 OF 247 AGRICOLA
- Characterization of a novel, defense-related Arabidopsis mutant, cirl, L2 TI isolated by luciferase imaging.

- ANSWER 28 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
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- Knockout of Arabidopsis ACCELERATED-CELL-DEATH11 encoding a sphingosine transfer protein causes activation of programmed cell death and defense. TT
- ANSWER 31 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- Age-related resistance in Arabidopsis is a developmentally regulated TΙ defense response to Pseudomonas syringae.
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- DUPLICATE 17 The Arabidopsis hrll mutation reveals novel overlapping roles for L2 salicylic acid, jasmonic acid and ethylene signalling in cell death and ΤI defence against pathogens.
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- Ozone-induced ethylene production is dependent on salicylic acid, and both salicylic acid and ethylene act in concert to regulate ozone-induced cell TΙ death.
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- Arabidopsis RPP4 is a member of the RPP5 multigene family of TIR-NB-LRR genes and confers downy mildew resistance through multiple signalling components.
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- L2Tobacco Rarl, EDS1 and NPR1/NIM1 like genes are required for N-mediated resistance to tobacco mosaic virus. ΤT
- ANSWER 36 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. T₁2
- Runaway cell death, but not basal disease resistance, in 1sd1 is SA- and TΙ NIM1/NPR1-dependent.
- ANSWER 37 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2DUPLICATE 22
- Priming in plant-pathogen interactions. TI
- ANSWER 38 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2DUPLICATE 23
- The tobacco mosaic virus resistance gene, N. TI
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- Over-expression of TGA5, which encodes a bZIP transcription factor that ΤI interacts with NIM1/NPR1, confers SAR-independent resistance in Arabidopsis thaliana to Peronospora parasitica.
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- Development of a high-throughput yeast two-hybrid screening system to TI study protein protein interactions in plants.
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- Role of salicylic acid, ethylene and jasmonic acid signaling in ΤI ssil-conferred, NPR1-independent defense responses.
- ANSWER 42 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- Arabidopsis TGA2 mediates NPR1-dependent and SA-responsive ΤI activation of transcription.
- ANSWER 43 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 25
- Genomic structure, organization, and promoter region analysis of murine guanylyl cyclase/atrial natriuretic peptide receptor-A gene. TI
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- Cross-talk between salicylate- and jasmonate-dependent induced defenses in ΤT Arabidopsis
- ANSWER 46 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 26
- Yeast Npi3/Brol is involved in ubiquitin-dependent control of permease ΤI trafficking.
- ANSWER 47 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Analysis of SAR and identification of other pathogen-induced defense L2responses in Arabidopsis
- ANSWER 48 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Systemic acquired resistance in Arabidopsis ΤT
- DUPLICATE 27 ANSWER 49 OF 247 AGRICOLA
- Chemically induced virus resistance in Arabidopsis thaliana is independent 1.2 of pathogenesis-related protein expression and the NPR1 gene. ΤT
- ANSWER 50 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- DUPLICATE 28 The Arabidopsis gain-of-function mutant dll1 spontaneously develops TΤ lesions mimicking cell death associated with disease.

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- Targeted disruption of the gene for natriuretic peptide receptor-A worsens ΤI hypoxia-induced cardiac hypertrophy.
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- Epistasis analysis of dndl-mediated resistance responses. ΤI
- ANSWER 53 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- NPR1-independent defense pathway in the Arabidopsis thaliana ΤI ssil mutant.
- ANSWER 54 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Two pathways act in an additive rather than obligatorily synergistic L2 fashion to induce systemic acquired resistance and PR gene expression TΙ
- ANSWER 55 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Mapping molecular interactions in transgenic plants using protein ΤI fragments complementation assays (PCA)
- ANSWER 56 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Haplotypes and genotyping of the human NPR1 gene encoding TT natriuretic peptide receptor A
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- Cloning, sequence and diagnostic and therapeutic applications of human ΤI **NIM1** kinase
- ANSWER 58 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Single nucleotide polymorphisms in human genes
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- Homologs of the systemic acquired disease resistance gene NIM1 of Arabidopsis thaliana from crop plants
- ANSWER 60 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Maize NPR1-interacting proteins and cDNAs and transgenic plants TΙ with altered levels of NPR1-interacting protein
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DUPLICATE 30

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the yeast Gapl permease.

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DUPLICATE 35

- L2Salicylic acid and NIM1/NPR1-independent gene induction by incompatible Peronospora parasitica in Arabidopsis. ΤI
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DUPLICATE 36

- Activation of an EDS1-mediated R-gene pathway in the snc1 mutant leads to constitutive, NPR1-independent pathogen resistance. TΙ
- ANSWER 73 OF 247 AGRICOLA

DUPLICATE 37

- NIM1 overexpression in Arabidopsis potentiates plant disease L2resistance and results in enhanced effectiveness of fungicides.
- ANSWER 74 OF 247 AGRICOLA

DUPLICATE 38

- Molecular responses to aphid feeding in Arabidopsis in relation to plant L2тT defense pathways.
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DUPLICATE 37

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CODEN: MPMIEL; ISSN: 0894 0282

- NTE Includes references
- Minnesota; United States CY
- Article DT
- U.S. Imprints not USDA, Experiment or Extension FS
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- The NIM1 (for noninducible immunity, also known as NPR1) gene is required for the biological and chemical activation of systemic AΒ acquired resistance (SAR) in Arabidopsis. Overexpression of NIM1

in wild-type plants (hereafter referred to as NIM1 plants or lines) results in varying degrees of resistance to different pathogens. Experiments were performed to address the basis of the enhanced disease resistance responses seen in the NIM1 plants. The increased resistance observed in the NIM1 lines correlated with increased NIM1 protein levels and rapid induction of PR1 gene expression, a marker for SAR induction in Arabidopsis, following pathogen inoculation. Levels of salicylic acid (SA), an endogenous signaling molecule required for SAR induction, were not significantly increased compared with wild-type plants. SA was required for the enhanced resistance in NIM1 plants, however, suggesting that the effect of NIM1 overexpression is that plants are more responsive to SA or a SA-dependent signal. This hypothesis is supported by the heightened responsiveness that NIM1 lines exhibited to the SAR-inducing compound benzo(1,2,3)-thiadiazole-7-carbothioic acid S-methyl ester. Furthermore, the increased efficacy of three fungicides was observed in the NIM1 plants, suggesting that a combination of transgenic and chemical approaches may lead to effective and durable disease-control strategies.

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- DUPLICATE 42 Identification of a 2,6-dichloroisonicotinic-acid-sensitive protein kinase L2 from tobacco by affinity chromatography on benzothiadiazole-sepharose and NIM-metal chelate adsorbent.
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- Trans-dominant suppression of plant TGA factors reveals their negative and L2ΤI positive roles in plant defense responses.
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- Abnormal callose response phenotype and hypersusceptibility to Peronospora parasitica in defense-compromised Arabidopsis nim1-1 and ΤI salicylate hydroxylase-expressing plants.
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- ANSWER 88 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC L2 DUPLICATE 51
- Novel NPR1 polymorphic variants and its exclusion as a candidate gene for medullary cystic kidney disease (ADMCKD) type 1. ΤT
- ANSWER 89 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2DUPLICATE 52
- Genetic dissection of systemic acquired resistance. TΙ
- ANSWER 90 OF 247 AGRICOLA

DUPLICATE 53

- Characterization of an Arabidopsis-Phytophthora Pathosystem: resistance L2requires a functional PAD2 gene and is independent of salicylic acid, TIethylene and jasmonic acid signalling.
- DUPLICATE 54 ANSWER 91 OF 247 AGRICOLA
- A role for salicylic acid and NPR1 in regulating cell growth in L2 ΤT Arabidopsis.
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- A disease resistance pathway in rice similar to the NPR1 TI-mediated pathway in Arabidopsis.
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- Method for protecting plants. ΤI

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- Protein and cDNA sequences of corn NPR1 gene and uses thereof in ΤI plant disease control
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- Enhancement of induced disease resistance by simultaneous activation of TIsalicylate- and jasmonate-dependent defense pathways in Arabidopsis thaliana.
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- Tryptophan permease gene TAT2 confers high-pressure growth in ΤI Saccharomyces cerevisiae.
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- Regulation of yeast H+-ATPase by protein kinases belonging to a family ΤŢ dedicated to activation of plasma membrane transporters.
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- Nuclear localization of NPR1 is required for activation of PR TIgene expression.
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- Roles of salicylic acid, jasmonic acid, and ethylene in cpr-induced TΙ resistance in Arabidopsis.
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- Riboflavin induces disease resistance in plants by activating a novel ΤI signal transduction pathway.
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an ecdysteroid target gene at the onset of Drosophila metamorphosis.

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- ANSWER 143 OF 247 AGRICOLA

DUPLICATE 79

- Arabidopsis thaliana PAD4 encodes a lipase-like gene that is important for L2ΤI salicylic acid signaling.
- ANSWER 144 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 80
- Interaction of NPR1 with basic leucine zipper protein transcription factors that bind sequences required for salicylic acid TΙ induction of the PR-1 gene.
- ANSWER 145 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L_2
- Hypertension associated with decreased testosterone levels in natriuretic peptide receptor A gene-knockout and gene-duplicated mutant mouse models. ТŢ
- ANSWER 146 OF 247 AGRICOLA

DUPLICATE 82

- The gain-of-function Arabidopsis acd6 mutant reveals novel regulation and L2function of the salicylic acid signaling pathway in controlling cell death, defenses, and cell growth.
- ANSWER 147 OF 247 AGRICOLA

DUPLICATE 83

- Inhibition of protoporphyrinogen oxidase expression in Arabidopsis causes L? a lesion-mimic phenotype that induces systemic acquired resistance. TT
- ANSWER 148 OF 247 AGRICOLA

DUPLICATE 84

- Enhanced expression and activation of the alternative oxidase during L2 infection of Arabidopsis with Pseudomonas syringae pv tomato. TI
- ANSWER 149 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. 1.2
- Identification and cloning of a negative regulator of systemic acquired resistance, SNI1, through a screen for suppressors of npr1-1. TΙ
- ANSWER 150 OF 247 AGRICOLA

DUPLICATE 86

- Harpin induces disease resistance in Arabidopsis through the systemic acquired resistance pathway mediated by salicylic acid and the ΤI NIM1 gene.
- => d bib abs 142 123 118 112 103
- ANSWER 142 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L₂
- 2000:279051 BIOSIS AN
- PREV200000279051
- Altered forms of the NIM1 gene conferring disease resistance in DN ΤI
- Uknes, Scott Joseph (1); Hunt, Michelle Denise; Steiner, Henry-York; ΑU Ryals, John Andrew
- (1) Cary, NC USA CS
 - ASSIGNEE: Novartis AG
- US 5986082 November 16, 1999
- Official Gazette of the United States Patent and Trademark Office Patents, PΙ SO

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(Nov. 16, 1999 Vol. 1228, No. 3, pp. No pagination. e-file.
     ISSN: 0098-1133.
     Patent
    The NIM1 gene product is a structural homologue of the mammalian
LA
     signal transduction factor IkappaB subclass alpha. The present invention
AΒ
     exploits this discovery to provide altered forms of NIM1 that
     act as dominant-negative regulators of the systemic acquired resistance
     (SAR) signal transduction pathway. These altered forms of NIM1
     confer the opposite pnenotype as the nim1 mutant in plants
     transformed with the altered forms of NIM1; i.e., the transgenic
     plants exhibit constitutive SAR gene expression and a constitutive
     immunity (CIM) phenotype. The present invention further concerns DNA
     molecules encoding altered forms of the NIM1 gene, expression
     vectors containing such DNA molecules, and plants and plant cells
     transformed therewith. The invention also concerns methods of activating
     SAP in plants and conferring to plants a CIM phenotype and broad spectrum
     disease resistance by transforming the plants with DNA molecules encoding
     altered forms of the NIM1 gene product.
                                                            DUPLICATE 65
     ANSWER 123 OF 247 AGRICOLA
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      2001:21343 AGRICOLA
AN
     Nuclear localization of NPR1 is required for activation of PR
      IND22298171
DΝ
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      gene expression.
      Kinkema, M.; Fan, W.; Dong, X.
AU
      DNAL (QK725.P532)
      The Plant cell, Dec 2000. Vol. 12, No. 12, p. 2339-2350
ΑV
      Publisher: [Rockville, MD : American Society of Plant Physiologists,
 SO
      c1989-
      CODEN: PLCEEW; ISSN: 1040-4651
 NTE Includes references
    Maryland; United States
 CY
 DT
      U.S. Imprints not USDA, Experiment or Extension
 FS
      English
 LA
      ANSWER 118 OF 247 CAPLUS COPYRIGHT 2003 ACS
 L_2
      2000:335557 CAPLUS
      132:344136
      Protein and cDNA sequences of corn, rice, and wheat NPR1 genes,
      chimeric NPR1 genes, and uses thereof in plant disease control
 ΤI
      Famodu, Omolayo O.; Fang, Yiwen; Liu, Zhan-Bin; Miao, Guo-Hua; Odell, Joan
 IN
      E.I. du Pont de Nemours and Company, USA
 PΑ
       PCT Int. Appl., 35 pp.
 SO
       CODEN: PIXXD2
 DT
       Patent
       English
 T.A
  FAN.CNT 1
                                       APPLICATION NO. DATE
                       KIND DATE
       PATENT NO.
                                               _____
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                                              WO 1999-US25953 19991104
       WO 2000028036 A2 20000518
WO 2000028036 A3 20001109
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           W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE,
               HR. HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
           RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
               DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                         AA 20000518 CA 1999-2345351 19991104
A2 20010822 EP 1999-971853 19991104
       CA 2345351
           R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
       EP 1124963
                IE, SI, LT, LV, FI, RO
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PRAI US 1998-107242P
    WO 1999-US25953 W 19991104
    This invention provides protein and cDNA sequences of corn, rice and wheat
    NPR1 proteins and genes, which have homol. to Arabidopsis thaliana
AΒ
     NPR1. The invention also relates to the construction of a
     chimeric gene encoding all or a portion of the NPR1 homolog, in
     sense or antisense orientation, wherein expression of the chimeric gene
     results in prodn. of altered levels of the NPR1 in a transformed
     plant cell. The invention further relates to the use of the NPR1
     for inducing plant disease resistance.
     ANSWER 112 OF 247 CAPLUS COPYRIGHT 2003 ACS
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     2000:824431 CAPLUS
AN
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DN
     Wheat and rice acquired resistance gene npr1 and protein and
ΤŢ
     transgenic plants with enhanced disease resistance
     Bougri, Oleg V.; Rommens, Caius M. T.; Srivastava, Neelam; Swords,
ΙN
     Kathleen M.
     Monsanto Co., USA
PΑ
     PCT Int. Appl., 101 pp.
SO
     CODEN: PIXXD2
     Patent
DT
     English
LA
FAN.CNT 1
                                           APPLICATION NO. DATE
                   FIND DATE
                       rind DATE
     PATENT NO.
                                            ______
     WO 2000070069 A1 20001123 WO 2000 US13307 20000512
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
P1
              CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NG, NZ, PL, PT, RO, RU, SD, SE,
              SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
              DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
              CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                        A1 20020116 EP 2000-930738 20000512
          R: AT, BE, CH, DE, DK, ES, FR, GB, GP, IT, LI, LU, NL, SE, MC, PT,
      EP 1171620
               IE, SI, LT, LV, FI, RO
                                                               20000512
                                             BR 2000-10530
      BR 2000010530 A 20020423
                                                               20000512
                                             JP 2000-618475
                       T2 20021224
      JP 2002543845
                                                               20000512
                                             US 2000-569804
                       B1 20030114
      US 6506962
 PRAI US 1999-133965P P
                             19990513
      WO 2000-US13307 W 20000512
      The invention describes the npr1 genes of wheat and rice and
      their encoded proteins. A method of using the genes to make transgenic
 AΒ
      plants that are resistant to disease is also provided. Thus, the cDNAs
      for rice nprl and wheat npr2 genes were cloned and sequenced.
      Transgenic rice expressing the rice npr1 gene or the wheat npr2
      gene displayed enhanced resistance to Magnaporthe grisea.
               THERE AFE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
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                ALL CITATIONS AVAILABLE IN THE PE FORMAT
                                                            DUPLICATE 58
       ANSWER 103 OF 247 AGRICOLA
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       IND23239381
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       Evidence for a disease-resistance pathway in rice similar to the
  ΤI
       NPR1-mediated signaling pathway in Arabidopsis.
       Chern, M.S.; Fitzgerald, H.A.; Yadav, R.C.; Canlas, P.E.; Dong, X.;
  AU
       Ronald, P.C.
       The Plant journal: for cell and molecular biology, July 2001. Vol. 27,
       DNAL (QE710.P68)
  ΑV
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       No. 2. p. 101 113
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B1 20020312

US 6355462

US 1999-433248 19991104

ISSN: 0960-7412

- NTE Includes references
- CY England; United Kingdom
- Article DT
- FS Non-U.S. Imprint other than FAO
- English LA
- The Arabidopsis NPR1/NIM1 gene is a key regulator of AB systemic acquired resistance (SAR). Over-expression of NPR1 leads to enhanced resistance in Arabidopsis. To investigate the role of NPR1 in monocots, we over-expressed the Arabidopsis NPR1 in rice and challenged the transgenic plants with Xanthomonas oryzae pv. oryzae (Xoo), the rice bacterial blight pathogen. The transgenic plants displayed enhanced resistance to Xoo. RNA blot hybridization indicates that enhanced resistance requires expression of NPR1 mRNA above a threshold level in rice. To identify components mediating the resistance controlled by NPR1, we used NPR1 as bait in a yeast two-hybrid screen. We isolated four cDNA clones encoding rice NPR1 interactors (named rTGA2.1, rTGA2.2, rTGA2.3 and rLG2) belonging to the bZIP family. rTGA2.1, rTGA2.2 and rTGA2.3 share 75, 76 and 78% identity with Arabidopsis TGA2, respectively. In contrast, rLG2 shares highest identity (81%) to the maize liguleless (LG2) gene product, which is involved in establishing the leaf blade-sheath boundary. The interaction of NPR1 with the rice bZIP proteins in yeast was impaired by the npr1-1 and npr1-2 mutations, but not by the nim1 -4 mutation. The NPR1-rTGA2.1 interaction was confirmed by an in vitro pull-down experiment. In gel mobility shift assays, rTGA2.1 binds to the rice RCH10 promoter and to a cis-element required sequencespecifically for salicylic acid responsiveness. This is the first demonstration that the Arabidopsis NPR1 gene can enhance disease resistance in a monocot plant. These results also suggest that monocot and dicot plants share a conserved signal transduction pathway controlling NPR1-mediated resistance.

=> d ti 151-200

- ANSWER 151 OF 247 AGRICOLA 1.2
- DUPLICATE 87 The Arabidopsis ssil mutation restores pathogenesis-related gene TΙ expression in npr1 plants and renders defensin gene expression salicylic acid dependent
- ANSWER 152 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. 1.2 DUPLICATE 88
- Niml-related kinases coordinate cell cycle progression with the TΤ organization of the peripheral cytoskeleton in yeast.
- ANSWER 153 OF 247 CAPLUS COPYRIGHT 2003 ACS L_2
- Development of disease resistant plants and novel fungicides ΤT
- ANSWER 154 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 89
- Interaction between the fission yeast niml/cdrl protein kinase and a ΤI dynamin-related protein.
- ANSWER 155 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2DUPLICATE 90
- Interleukin-lalpha regulates G1 cell cycle progression and arrest in ΤI thyroid carcinoma cell lines NIM1 and NPA.
- ANSWER 156 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Synergistic use of microbicides and strongly expressed systemic acquired ΤI resistance genes in increasing plant resistance to pathogens
- ANSWER 157 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Use of alleles of the NIM1 gene of Arabidopsis to improve levels ΤI

of disease resistance in plants

- ANSWER 158 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Acquired resistance NPR1 genes from Arabidopsis thaliana and Nicotiana glutinosa and their use for genetic engineering
- DUPLICATE 91 ANSWER 159 OF 247 AGRICOLA L2
- Separate jasmonate-dependent and salicylate-dependent defense-response pathways in Arabidopsis are essential for resistance to distinct microbial ΤI pathogens.
- DUPLICATE 92 ANSWER 160 OF 247 AGRICOLA
- L2 The TOR nutrient signalling pathway phosphorylates NPR1 and TΙ inhibits turnover of the tryptophan permease.
- DUPLICATE 93 ANSWER 161 OF 247 AGRICOLA
- Generation of broad-spectrum disease resistance by overexpression of an L2ΤI essential regulatory gene in systemic acquired resistance.
- ANSWER 162 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2DUPLICATE 94
- The protein kinase Cdr2, related to Niml/Cdr1 mitotic inducer, ΤT regulates the onset of mitosis in fission yeast.
- ANSWER 163 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. 1.2 DUPLICATE 95
- Natriuretic peptide receptor 1 expression influences blood pressures of TT mice in a dose-dependent manner.
- ANSWER 164 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 96
- The spermidine transport system is regulated by ligand inactivation, ΤI endocytosis, and by the Nprlp Ser/Thr protein kinase in Saccharomyces cerevisiae.
- DUPLICATE 97 ANSWER 165 OF 247 AGRICOLA
- Impaired fungicide activity in plants blocked in disease resistance signal TΙ transduction.
- DUPLICATE 98 ANSWER 166 OF 247 AGRICOLA
- A novel signalling pathway controlling induced systemic resistance in TΙ Arabidopsis.
- ANSWER 167 OF 247 AGRICOLA L2
- The phytochrome response of the Lemna gibba NPR1 gene is TΤ mediated primarily through changes in abscisic acid levels.
- ANSWER 168 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2DUPLICATE 100
- The MEP2 ammonium permease regulates pseudohyphal differentiation in ТΙ Saccharomyces cerevisiae.
- ANSWER 169 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- A novel defence pathway in Arabidopsis induced by biocontrol bacteria. ΤТ
- ANSWER 170 OF 247 CAPLUS COPYRIGHT 2003 ACS Li2
- Natural variation in a neuropeptide Y receptor homolog modifies social ΤI behavior and food response in C. elegans
- DUPLICATE 101 ANSWER 171 OF 247 AGRICOLA L2
- Uncoupling PR gene expression from NPR1 and bacterial ΤI resistance: characterization of the dominant arabidopsis cpr6-1 mutant.
- ANSWER 172 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 102

- Isolation of new Arabidopsis mutants with enhanced disease susceptibility ΤI to Pseudomonas syringae by direct screening.
- ANSWER 173 OF 247 AGRICOLA

- Correlation of defense gene industion defects with powdery mildew L2susceptibility in Arabidopsis enhanced disease susceptibility mutants. ΤI
- ANSWER 174 OF 247 BIOSIS CCPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 104
- Arabidopsis: A weed leading the field of plant-pathogen interactions. ΤI
- DUPLICATE 105 ANSWER 175 OF 247 AGRICOLA
- Requirement for the induced expression of a cell wall associated receptor L2ΤI kinase for survival during the rathogen response.
- ANSWER 176 OF 247 CAPLUS COPYRIGHT 2003 ACS
- The genetic studies and molecular cloning of the Arabidopsis NPR1 L2 gene: an important regulatory component in systemic acquired resistance TI
- ANSWER 177 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- The NIM1 gene involved in disease resistance in plants through ΤI systemic acquired resistance and its uses
- ANSWER 178 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. Ъ2 DUPLICATE 106
- Hypertension, cardiac hypertrophy, and sudden death in mice lacking TInatriuretic peptide receptor A.
- DUPLICATE 107 ANSWER 179 OF 247 AGRICOLA
- The cpr5 mutant of Arabidopsis expresses both NPR1-dependent and L2 ΤI NPR1-independent resistance.
- DUPLICATE 108 ANSWER 180 OF 247 AGRICOLA
- Nifl, a novel mitotic inhibitor in Schizosaccharomyces pombe. L2TΤ
- ANSWER 181 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 109
- A fission yeast homolog of CDC20/p55PC-DC/fizzy is required for recovery ΤI from DNA damage and genetically interacts with p34-cdc2.
- ANSWER 182 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 110
- Markers of cell polarity during and after nitrogen starvation in ΤI Schizosaccharomyces pombe.
- ANSWER 183 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Genetic mapping of the C-type natriuretic peptide receptor (Npr2) gene to ΤI mouse chromosome 4
- DUPLICATE 111 ANSWER 184 OF 247 AGRICOLA
- The Arabidopsis NIM1 protein shows homology to the mammalian L2TItranscription factor inhibitor IkappaB.
- ANSWER 185 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2
- Physical mapping of the human connexin 40 (GJA5), flavin-containing ΤT monooxygenase 5, and natriuretic peptide receptor A genes on 1q21.
- ANSWER 186 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L_2
- The Arabidopsis thaliana NIM1 protein is homologous to the TΙ mammalian transcription factor inhibitor I kappa B.
- DUPLICATE 113 ANSWER 187 OF 247 AGRICOLA L2
- Relationships between protein isoforms and genetic functions demonstrate ΤI functional redundancy at the Broad-Complex during Drosophila

metamorphosis.

- DUPLICATE 114 ANSWEP 188 OF 247 AGRICOLA
- Role of the fission yeast nim1 protein kinase in the cell cycle ΤI response to nutritional signals.
- DUPLICATE 115 ANSWER 189 OF 247 AGRICOLA L2
- Nitrogen starvation of the rice blast fungus Magnaporthe grisea may act as ΤI an environmental cue for disease symptom expression.
- ANSWER 190 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L2 DUPLICATE 116
- Evidence for a mammalian Niml-like kinase pathway acting at the ΤI GO-1/S transition.
- DUPLICATE 117 ANSWER 191 OF 247 AGRICOLA L2
- Characterization of a salicylic acid-insensitive mutant (sail) of Arabidopsis thaliana, identified in a selective screen utilizing the ΤI SA-inducible expression of the tms2 gene.
- ANSWER 192 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L_2 DUPLICATE 118
- The Arabidopsis NPR1 gene that controls systemic acquired resistance encodes a novel protein containing ankyrin repeats. ΤT
- ANSWER 193 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L_2 DUPLICATE 119
- Roles of Weel and Nim1 protein kinases in regulating the switch from mitotic division to sexual development in Schizosaccharomyces pombe. ΤI
- ANSWER 194 OF 247 CAPLUS COPYRIGHT 2003 ACS L2
- Genetic and molecular characterization of genes required for pathogenicity in the rice blast fungus, Magnaporthe grisea (nitrogen metabolism, TIacropetal, trans acting, spore patterning)
- ANSWER 195 OF 247 CAPLUS COPYRIGHT 2003 ACS
- Regulation of nim 1 protein kinase in the life cycle of the fission yeast L2TΤ Schizosaccharomyces pombe
- DUPLICATE 120 ANSWER 196 OF 247 AGRICOLA
- Ozone-induced responses in Arabidopsis thaliana: the role of salicylic L_2 acid in the accumulation of defense-related transcripts and induced TT resistance.
- DUPLICATE 121 ANSWER 197 OF 247 AGRICOLA L2
- Pathogen-induced systemic activation of a plant defensin gene in TΙ Arabidopsis follows a salicylic acid-independent pathway
- ANSWER 198 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 122
- Spatial organization of the Niml-Weel-Cdc2 mitotic control network in Schlzosaccharomyces pombe.
- ANSWER 199 OF 247 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 123
- A search for proteins that interact genetically with histone H3 and H4 amino termini uncovers novel regulators of the Swel kinase in Saccharomyces cerevisiae.
- ANSWER 200 OF 247 AGRICOLA 1.2
- Isolation of Arabidopsis mutants with enhanced disease susceptibility by TT direct screening.

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    1997:87707 BIOSIS
ΑN
    PREV199799379420
    The Arabidopsis NPR1 gene that controls systemic acquired
DN
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resistance encodes a novel protein containing ankyrin repeats. ΤI Cao, Hui (1); Glazebrook, Jane; Clarke, Joseph D. (1); Volko, Sigrid; ΑU

Dong, Kinnian (1) (1) Dev. Cell Molecular Biol. Group, Dep. Botany, Duke Univ., Durham, NC CS 27708-1000 USA

Cell, (1997) Vol. 88, No. 1, pp. 57-63. SO ISSN: 0092-8674.

Article DΤ English

LA The Arabidopsis NPR1 gene controls the onset of systemic acquired resistance (SAR), a plant immunity, to a broad spectrum of AΒ pathogens that is normally established after a primary exposure to avirulent pathogens. Mutants with defects in NPR1 fail to respond to various SAR-inducing treatments, displaying little expression of pathogenesis-related (PR) genes and exhibiting increased susceptibility to infections. NPR1 was cloned using a map-based approach and was found to encode a novel protein containing ankyrin repeats. The lesion in one npr1 mutant allele disrupted the ankyrin consensus sequence, suggesting that these repeats are important for NPR1 function. Furthermore, transformation of the cloned wild-type NPR1 gene into npr1 mutants not only complemented the mutations, restoring the responsiveness to SAR induction with respect to PR-gene expression and resistance to infections, but also rendered the transgenic plants more resistant to infection by P. syringae in the absence of SAR induction.

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ANSWER 177 OF 247 CAPLUS COPYRIGHT 2003 ACS
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1998:42499 CAPLUS AΝ

128:113033 DN

The NIM1 gene involved in disease resistance in plants through TIsystemic acquired resistance and its uses

Ryals, John Andrew; Delaney, Terrence Patrick; Friedrich, Leslie Bethards; IN Weymann, Kristianna; Johnson, Jay Earl; Lawton, Kay Ann; Ellis, Daniel Murray

Novartis A.-G., Switz.; Ryals, John Andrew; Delaney, Terrence Patrick; Friedrich, Leslie Bethards; Weymann, Kristianna; Johnson, Jay Earl PΑ

PCT Int. Appl., 149 pp. SO CODEN: PIXXD2

Patent

English

PAN CNT 8

FAN.	CNT 8	KIND DATE	APPLICATION NO. DATE
	PATENT NO.	KIND NULD	
ΡΙ	DK, EE LC, LK PT, RC VN, YU PW: GH, KE GR, IE	M, AT, AU, AZ, BA, BB, E, ES, FI, GB, GE, GH, C, LR, LS, LT, LU, LV, D, RU, SD, SE, SG, S1, J, AM, AZ, BY, KG, KZ, LS, MW, GP, SZ, UG, ST, LS, MW, GP, SZ, UG, ST, LS, MW, GP, SZ, UG,	WO 1997-EP1218 19970310 BG, BR, BY, CA, CH, CN, CU, CZ, DE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, MD, MG, MK, MN, MW, MX, NO, NZ, PL, SK, TJ, TM, TR, TT, UA, UG, US, UZ, MD, RU, TJ, TM AT, BE, CH, DE, DK, ES, FI, FR, GB, SE, BF, BJ, CF, CG, CI, CM, CA, GN,
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	BR 9709925	A 19970010	

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                          19990915
                   A 19990919
T2 20000926
A 20000425
A1 20021017
P 19960621
- 19960830
    CN 1228813
                                        JP 1998-502146
                                                         19970310
    JP 2000512502
                                                           19981221
                                         KR 1998-710622
    KR 2000022203
                                                           20020219
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PRAI US 1996-20272P
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     US 1997-34730P P 19970110
     WO 1997-EP1218 W 19970310
     US 1997-880179 A1 19970620
     US 2000-577799 A1 20000524
     The invention concerns the location and characterization of an Arabidopsis
     gene (designated NIM1) that plays a key role in the systemic
AΒ
     acquired resistance (SAR) pathway and, in connection with chem. and biol.
     inducers, enables induction of SAR gene expression and broad spectrum
     disease resistance to plants. The gene may be of use in increasing pathogen resistance in plants. Null alleles (niml) of the
     NIM1 gene cannot induce the SAR pathway, including genes for
     pathogenesis-related proteins. The gene was cloned using map-based
     cloning methods.
     ANSWER 176 OF 247 CAPLUS COPYRIGHT 2003 ACS
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     128:71350
     The genetic studies and molecular cloning of the Arabidopsis NPR1
DN
     gene: an important regulatory component in systemic acquired resistance
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     Cao, Hui
ΑU
     Duke Univ., Durham, NC, USA
 CS
     (1997) 140 pp. Avail.: UMI, Order No. DA9805294
 SO
     From: Diss. Abstr. Int., B 1998, 58(8), 3988
     Dissertation
 DT
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 LA
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     ANSWER 157 OF 247 CAPLUS COPYRIGHT 2003 ACS
     1998:406088 CAPLUS
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      129:93054
      Use of alleles of the NIM1 gene of Arabidopsis to improve levels
 DI1
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      of disease resistance in plants
      Ryals, John Andrew; Lawton, Kay Ann; Uknes, Scott Joseph; Steiner,
      Henry-York; Hunt, Michelle Denise; Friedrich, Leslie Bethards; et al.
 TN
      Novartis A.-G., Switz.; Pyals, John Andrew; Lawton, Kay Ann; Uknes, Scott
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      Joseph; Steiner, Henry-York
      PCT Int. Appl., 206 pp.
 SO
      CODEN: PIXXD2
      Patent
 LA
      English
 FAN.CNT 8
      PATENT NO. KIND DATE APPLICATION NO. DATE
                                            _____
                     A1 19980618 WO 1997-EP7012 19971212
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BF, BY, CA, CH, CN, CU, CZ, DE, Dr. EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
      WO 9826082
  PΙ
          FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
               GA, GN, ML, MR, NE, SN, TD, TG
                                          US 1997-880179
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                                                             19971208
                            19980703
       FR 2757875
                        Α1
                                           IT 1997-MI2741
                                                             19971211
                        B1 20000110
       IT 1298472
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     A key gene in the SAR (systemic acquired resistance) pathway of
     Arabidopsis thaliana, the NIM1 (noninducible immunity 1) gene is
AB
     cloned and characterized for use in increasing the strength of a broad
      spectrum response to plant disease. The NIM1 gene product is a
      structural homolog of the mammalian signal transduction factor 1.kappa.B
      subclass .alpha.. Alleles of the gene that encode dominant neg.
      regulators of the systemic acquired resistance (SAR) signal transduction
      pathway are described. These alleles confer a phenotype opposite to that
      of the nim1 mutant, i.e. the transgenic plants exhibit
      constitutive SAR gene expression and a constitutive immunity (CIM)
      phenotype. The gene was mapped to a region of chromosome 1 between the
      ngall1 gene and the SSLP marker ATHGENEA. Cosmids covering this region
      were used to further map the gene and to clone a wild-type allele by
      complementation. Progeny of Arabidopsis plants transformed with the
      cloned gene showed increased resistance to fungal pathogens.
                THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
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 RE.CNT 9
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       Acquired resistance NPR1 genes from Arabidopsis thaliana and
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       Nicotiana glutinosa and their use for genetic engineering
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       Ausubel, Frederick M.; Glazebrook, Jane; Dong, Xinnian; Cao, Hui
       General Hospital Corporation, USA; Duke University
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       PCT Int. Appl., 128 pp.
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       CODEN: PIXXD2
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RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
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ND Generic and CDNA sequences encoding plant acquired resistance protein.
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Genomic and cDNA sequences encoding plant acquired resistance proteins are provided from cruciferous (Arabidopsis thaliana) and solanaceous (Nicotiana glutinosa) plants. Npr mutants showed that the NPR1 gene of A. thaliana is active in controlling the defense response against a broad spectrum of pathogens, and the gene was cloned using a map-based positional cloning strategy. The NPR1 protein comprised 593 amino acid residues and contained ankyrin-repeat and G-protein coupled receptor motifs as well as nuclear localization signals. NPR1 mediates the expression of pathogenesis-related polypeptides. Expression of these polypeptides in transgenic plants are useful for providing enhanced defense mechanisms to combat plant diseases.

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